SAT

San Antonio International Airport



Briefing for:

Ad Hoc Regional Committee
Technical Advisory Committee
Community Advisory Committee

November 2-3, 2009



AECOM
in association with:

Jacobs Consultancy
Michael Gallis & Associates
Sunland Group
KGB Texas

AECOM



Agenda



- Airport Activity
- Existing Airport Facilities
- Context for the Master Plan Goals and Objectives
- Conclusions and Project Next Steps





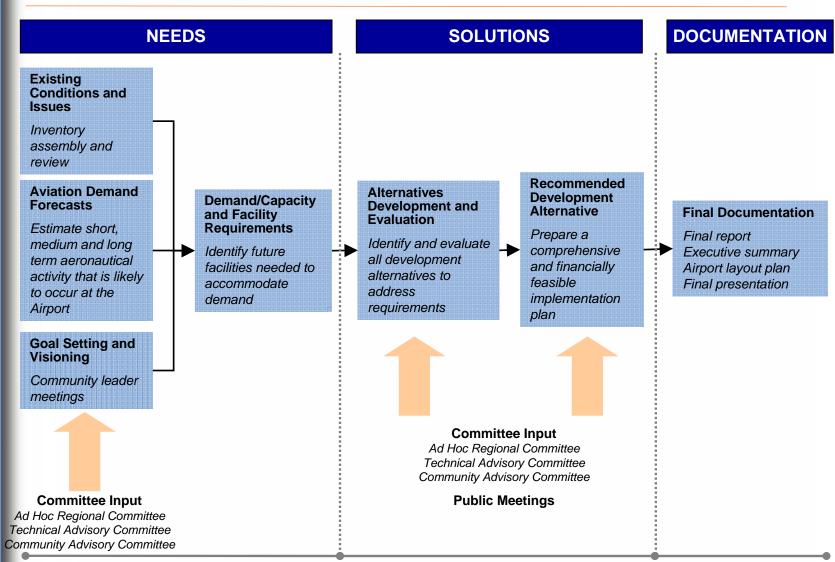








Master Plan Workflow







The AECOM Team











Firm	Role	Leadership
AECOM	Project management, coordination, lead role on inventory, facility requirements, alternatives, recommended development plan	Larry Bauman, P.E. Project Manager
Jacobs Consultancy	Lead role on forecast and financial feasibility analyses, support on inventory, facility requirements, alternatives, recommended development plan	Holland Young, LEED AP Deputy Project Manager
Michael Gallis & Associates	Vision development, support public and stakeholder involvement	Michael Gallis
Sunland Group	Inventory, cost estimating, engineering support	Brian Nasky
KGB Texas	Public and stakeholder involvement	Jeff Coyle







Project results

- Airport plans that will support and enhance the future mission of San Antonio and the region
- Major project phases
 - Needs
 - Solutions
 - Documentation
- Notable aspects
 - Immediate Action Plan
 - Visioning
 - Civic engagement























Project Tasks

Immediate Action Plan - Concluded

- Terminal 2 decommissioning
- Terminal C strategic feasibility plan
- Final report submitted September 21, 2009

Visioning & Existing Conditions - Underway

- Inventory existing facilities analysis
- Advisory committees regional input
- Visioning first committee meetings

Forecasts – Submitted to FAA

- Data collection, scenario development, methodology selection
- Forecast submitted to the FAA for review and approval

Facility Requirements - Underway

- Future Airport needs
- Airfield, terminal, landside, cargo, general aviation, military, support facilities













Project Tasks, continued

- Alternatives Analysis
 - Define and analyze potential solutions
- Facilities Implementation Plan
 - Recommended solutions
 - Integrated airport development plan
 - Phasing plan
- Financial Feasibility
 - Financial capacity
 - Capital improvement plan
 - Plan of finance
- Documentation
 - Final technical report
 - Executive summary
 - Airport Layout Plan set (FAA approval required)



Project Schedule Summary

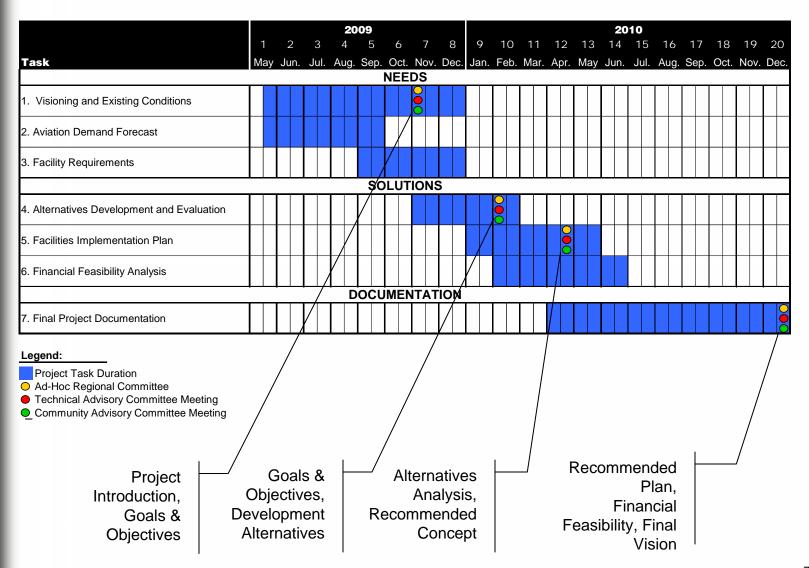


























Airport Activity















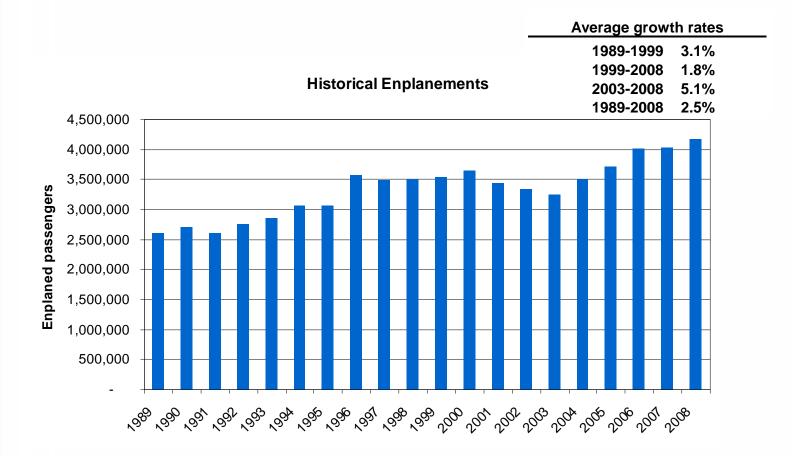
Airport Activity

- Develop an aviation demand forecast to support the Vision 2050 master plan.
- Forecast elements:
 - Enplaned passengers
 - Cargo tonnage
 - Aircraft operations
 - Peaking characteristics
 - Flight schedules
- Forecast horizon:
 - 2008 base year
 - 2010-2015: short term operational planning
 - 2020: Intermediate term capital improvement programming
 - 2030: long-range conceptual development





Historical Enplanements



- Long-term trend of mostly steady moderate growth
- Declines follow national trends
- Growth driven by national trends and expanded SAT air service













Enplanement Market Share









San Antonio International Airport Enplanement Market Share

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Primary carriers increase dominance		Airline	1999	2008	2009YTD
	1	Southwest	34.8%	34.9%	37.6%
		American	16.9%	18.5%	18.8%
Legacy carriers	<u> </u>	Continental	12.6%	12.1%	11.5%
mostly maintain		Delta	16.0%	8.5%	8.4%
share		United	5.0%	7.1%	7.2%
Silaie		Northwest	2.9%	5.6%	4.5%
Navy I CCa magazithy	<u></u>	US Airways	2.1%	4.2%	4.5%
New LCCs recently entered market		Frontier	0.0%	2.3%	2.5%
		ExpressJet	0.0%	1.7%	0.0%
Mayigana provides	<u> </u>	AirTran	0.0%	1.6%	2.8%
Mexicana provides		Spirit	0.0%	0.7%	0.3%
international service		Mexicana	1.7%	1.3%	1.4%
		TWA	4.9%	0.0%	0.0%
		Other	3.2%	1.5%	0.4%
		Total	100.0%	100.0%	100.0%





Domestic Air Service











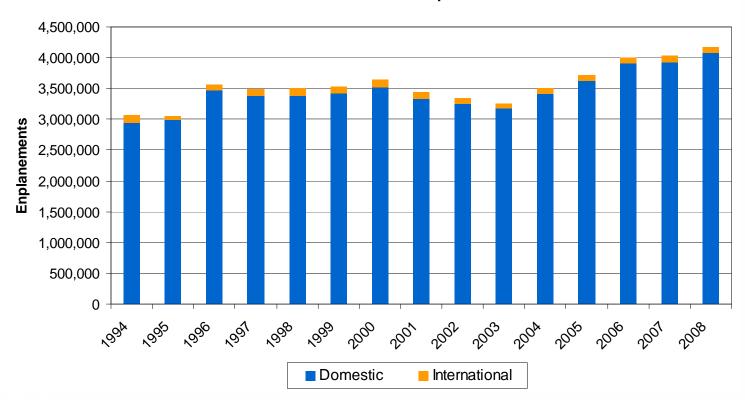






Domestic and International Enplanements

Domestic and International Enplanements



- Domestic enplanements typically account for 96% to 98% of total
- International service is primarily by Mexicana and Aeromexico to Mexico City and Monterrey
- International volume has remained between 80,000 to 120,000 enplanements















International Air Service















Forecast Approach

Air Traffic is a Derived Demand

- Local economic and demographic profile
- Identify events that influence demand
- Research long-term econ/demo outlook

Historical Aviation Demand

- Analyze long and short-term trends
- Identify reasons for divergence from trend
- Compare to U.S. and benchmark airports

National and Global Issues

- GDP is a good predictor of air travel demand
- Oil shocks and other economic events will reoccur
- Overall outlook for air travel demand
- Prepared 3 scenarios (baseline, high growth and low growth) to account for uncertainty in demand









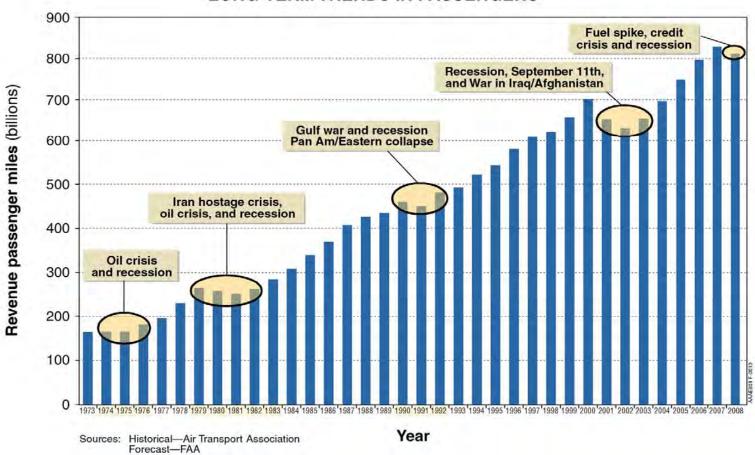






Background Analysis

LONG-TERM TRENDS IN PASSENGERS









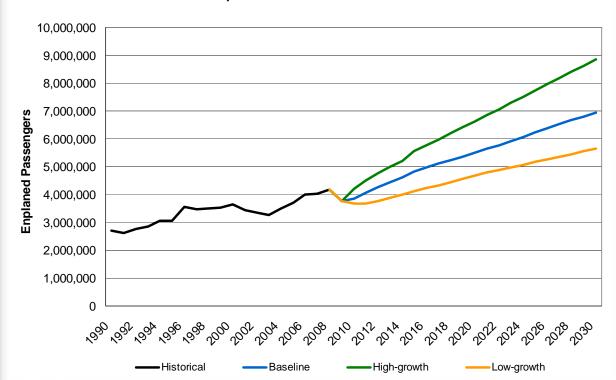






Enplanement Forecasts

Enplanement Forecast Scenarios



Baseline 3% growth in 2010, recovery to 2008 levels by 2012.

4.5% growth from 2010 through 2015.

Return to average historical growth after 2015 of 3.5% to 2.0%.



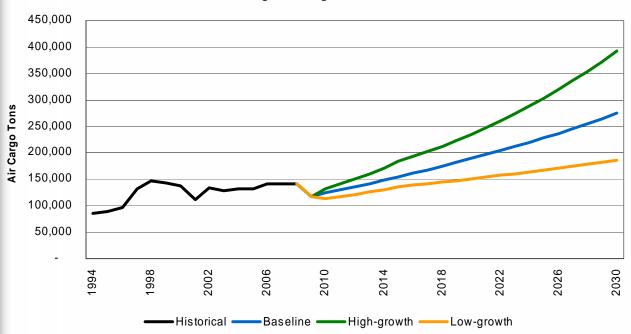


ENPLANEMENT FORECASTS						
	Estimate	Projections				CAGR
Forecast	2009	2010	2015	2020	2030	2009-2030
Baseline	3,750,000	3,863,000	4,814,000	5,500,000	6,940,000	3.0%
High-growth	3,750,000	4,197,000	5,547,000	6,625,000	8,848,000	4.2%
Low-growth	3,750,000	3,668,000	4,105,000	4,687,000	5,647,000	2.0%



Air Cargo Forecast

Air Cargo Tonnage Forecast Scenarios

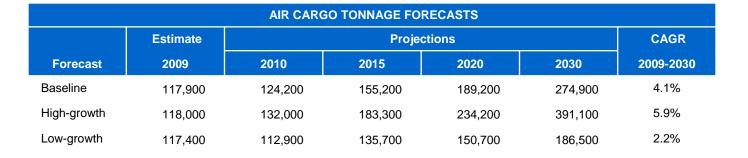


Baseline forecast projects decline of 18% in 2009 followed by recovery to 2008 levels by 2013.

Return to average historical growth after 2013 of 4.5% to 5%

Long-term growth projected at 4.3%



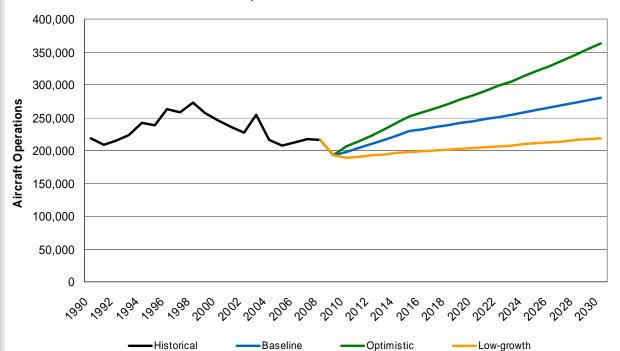






Aircraft Operations Forecasts

Operations Forecast Scenarios



Baseline forecast projects decline of 11% in 2009 followed by recovery to 2008 levels by 2014.

Commercial operations drives long-term growth as GA, Military and Air taxi level off.

Total operations longterm growth projected at 1.2%





OPERATIONS FORECASTS						
	Estimate	Projections				CAGR
Forecast	2009	2010	2015	2020	2030	2009-2030
Baseline	193,000	197,400	229,200	244,700	280,800	1.8%
High-growth	193,200	205,700	252,000	284,000	363,000	3.0%
Low-growth	192,900	188,600	197,700	204,000	219,000	0.6%













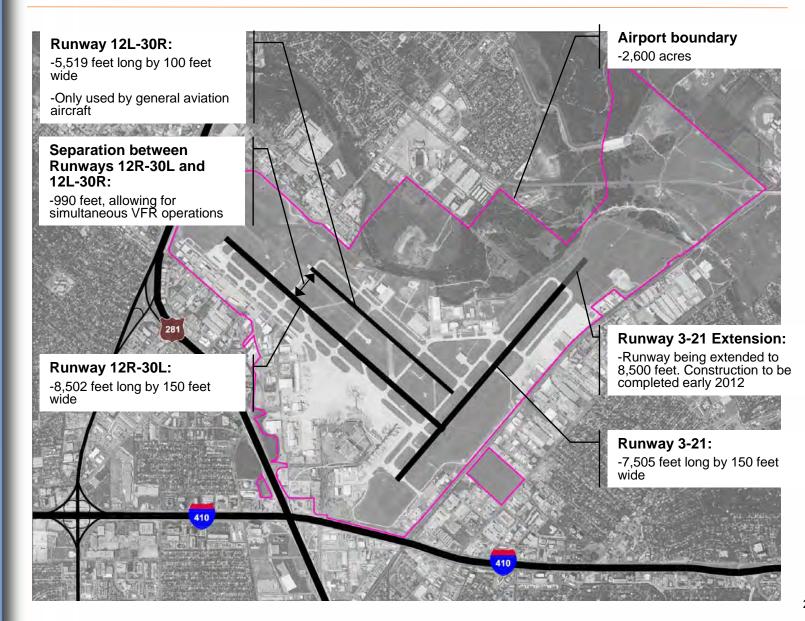


Existing Airport Facilities





Existing Airfield Facilities















Airport Access

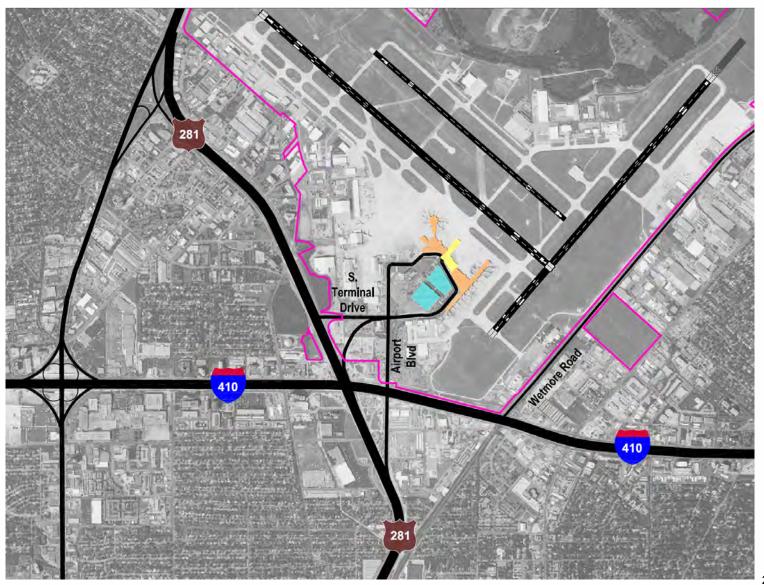
















Existing Terminal Facilities

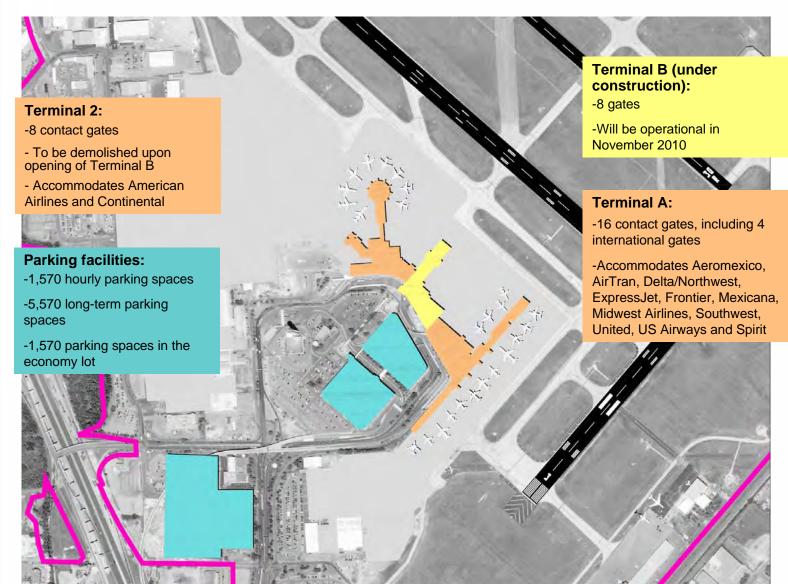










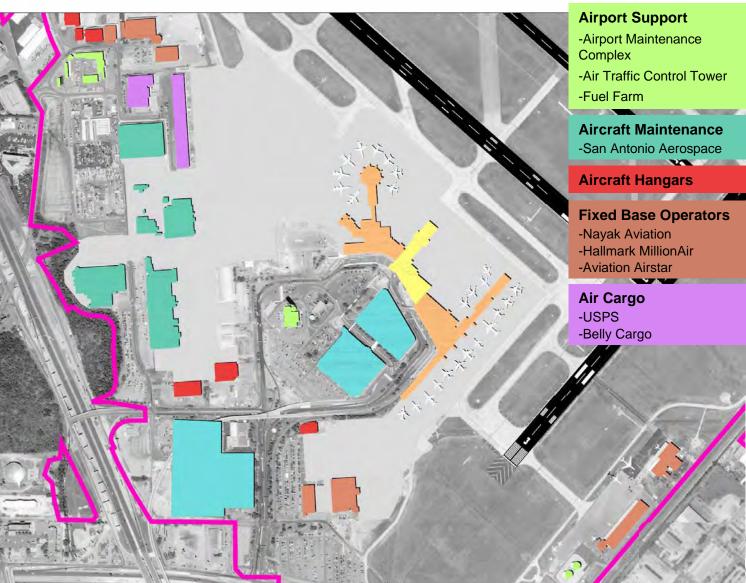






Existing Facilities – Terminal Area











Existing Facilities – West Area

















Existing Facilities – North & East Areas

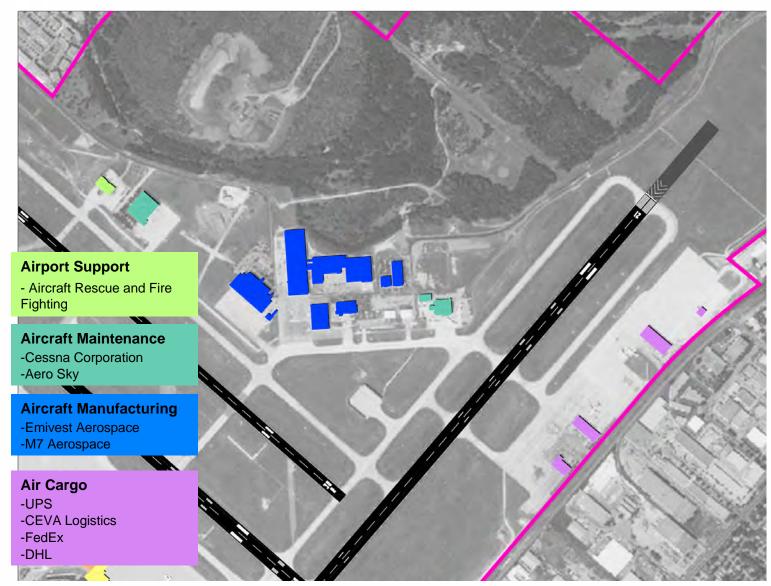




















Context for the Master Plan Goals and Objectives





Committee Structure

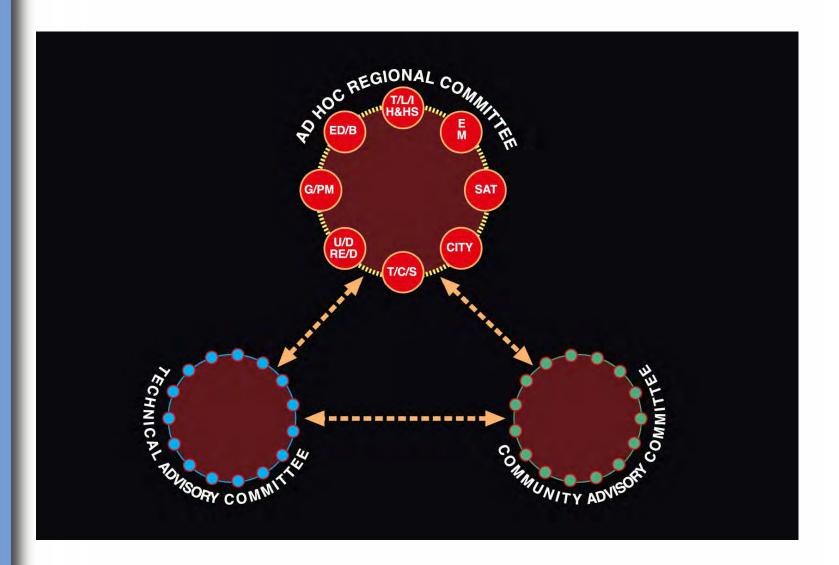


























Context

Technical issues that will define the future of the Airport

- Capacity
 - How much capacity is required? (airfield, terminals, parking, etc.)
- > Time
 - When will we need it?
- Money
 - How much will it cost?
- Legacy
 - How will this phase of development position SAT for the future?









Maximizing

Pushing any variable to its highest possible level of performance

Optimizing

 Balancing the performance of a multi-variable network so it can reach its ultimate

Satisfizing

 Fulfilling the needs, expectations and wishes of the community













Developing the Vision

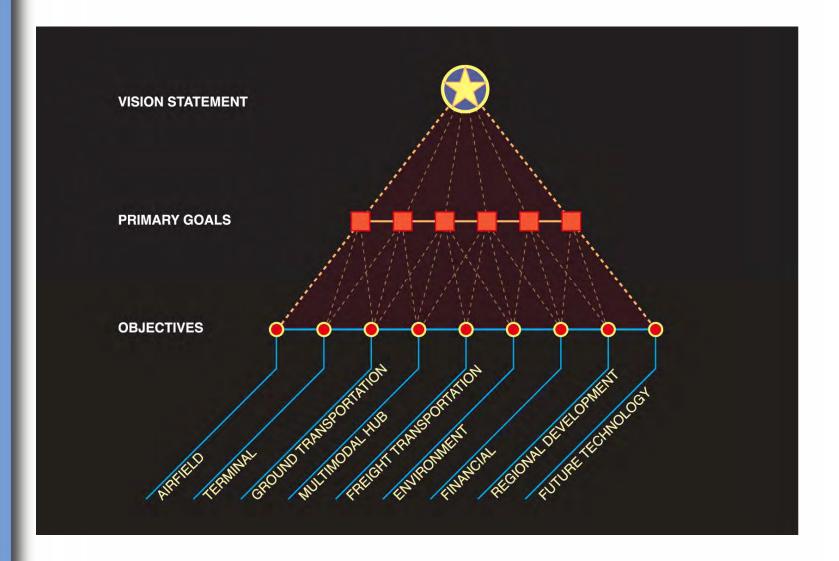
















Process

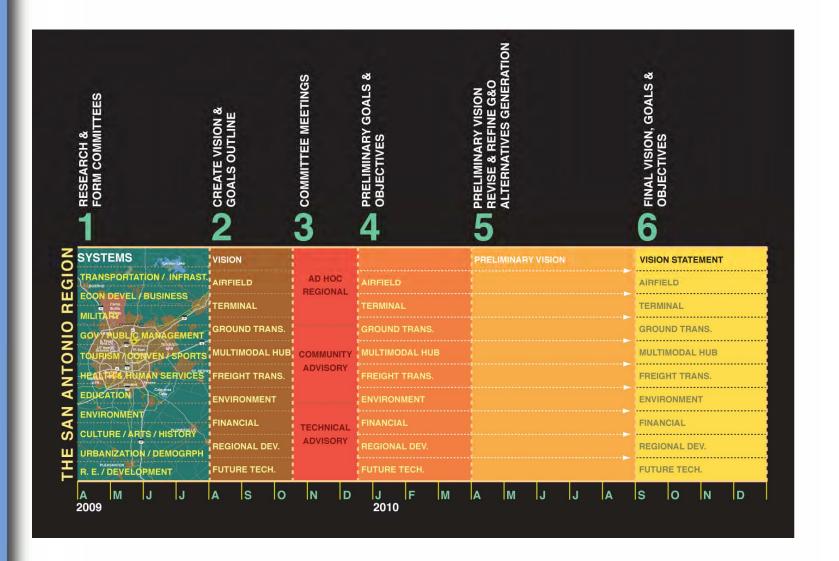


























Process

- What do we do at this meeting?
 - Presentation and discussion of:
 - Role of the Airport in the future of San Antonio
 - Goals & Objectives
- What will we do at the next meeting?
 - Focus on the specifics of the Goals & Objectives
- How do we finish?
 - Build the Vision Statement



City of San Antonio Vision

- ➤ The Master Plan of the City of San Antonio will provide a functional framework to guide in the development and implementation of policies that promote:
 - Equal opportunity to all San Antonio citizens and equity in the distribution of benefits.
 - Safe, dynamic and sustainable neighborhoods which offer employment opportunities, high quality education, adequate and affordable shelter, health care, and recreational amenities.
 - A vibrant economic climate which will attract and support a wide diversity of business opportunities and community services to provide benefits within the metropolitan area















City of San Antonio Mission:

➤ We deliver quality city services and commit to achieve San Antonio's vision of prosperity for our diverse, vibrant and historic community.

-City of San Antonio Aviation Dept. website (www.sanantonio.gov/aviation/info_noise.asp)









City Economic Development Goals

- Encourage economic diversity and jobs creation which are compatible with San Antonio's natural and cultural resources.
- Promote a business-government relationship that addresses the needs of businesses to operate in a positive and mutually beneficial environment.
- Create an environment of entrepreneurship, productivity, and innovation in San Antonio that promotes business start-up and business growth.
- Provide economic opportunities in targeted areas, particularly within Loop 410 and the southern sector.
- Provide a labor force qualified to meet the needs of San Antonio's employers.
 - San Antonio Master Plan Policies; May 29, 1997















City Natural Resources Goals

- Preserve the unique, rare and significant features of San Antonio's natural environment.
- Integrate environmental quality protection into all phases of local planning and policy implementation.
- Achieve a sustainable balance between the conservation, use and development of San Antonio's natural resources.
 - San Antonio Master Plan Policies; May 29, 1997







City Urban Design Goals

- Preserve and enhance the City's urban design.
- Preserve and enhance the City's historic resources.
- Develop and maintain a diversified and balanced citywide system of parks and open space.
- Plan, locate and maintain infrastructure and utilities to facilitate and maintain safe, healthy and sustainable environments for human activity.
- Develop policies for various transportation modes that will increase access to employment centers, community services, and cultural, recreational, educational and commercial facilities; and decrease the reliance on single occupancy vehicles.







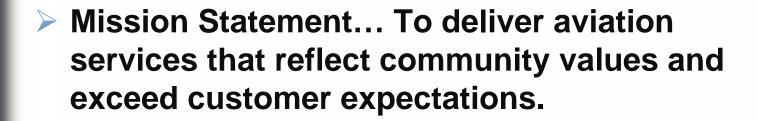








San Antonio Aviation Department Goals:













Bexar County Mission Statement

- Our Mission: Build a better community through quality services.
- Our Vision: Bexar County will be a resultsoriented organization characterized by accountable, professional and innovative leadership focused on excellent service.
 - www.bexar.org/Mission/MissionStatement.html



















Port San Antonio Mission

- ➤ Mission: To transform the former Kelly AFB to the benefit of San Antonio, creating quality jobs and generating economic growth.
- Vision: Create Port San Antonio as a high performance industrial airport, rail port and Town Center that is a quality place to live, work and play.

-www.PortSanAntonio.us/Webpages.asp?wpid=152





Global Context

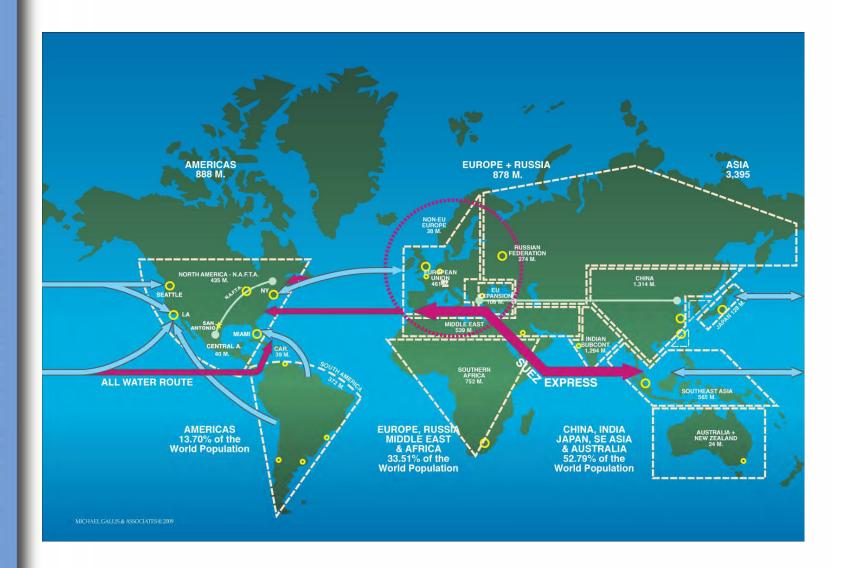
















North American Trade Flows

















US FAA Designated Air Hubs

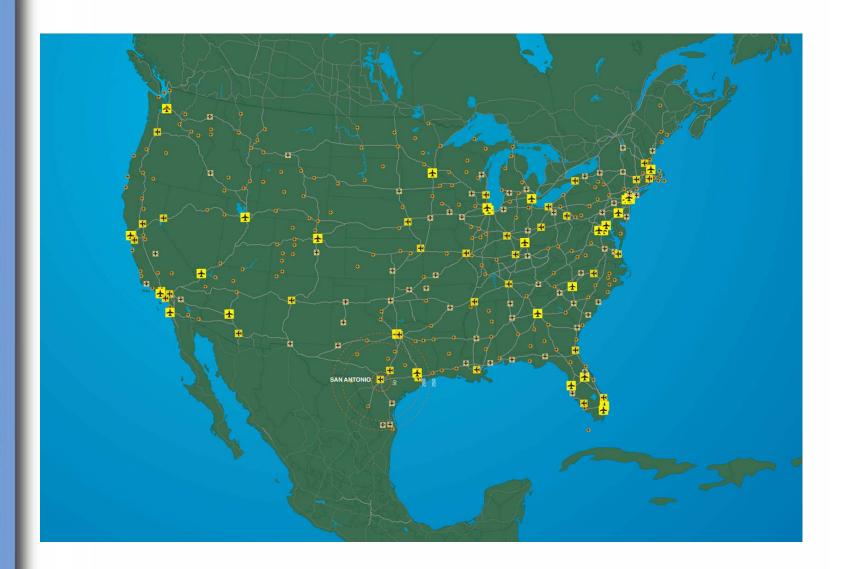
















SAT Non-Stop International Flights

















Austin Non-Stop International Flights









Houston Non-Stop International Flights









Dallas Non-Stop International Flights



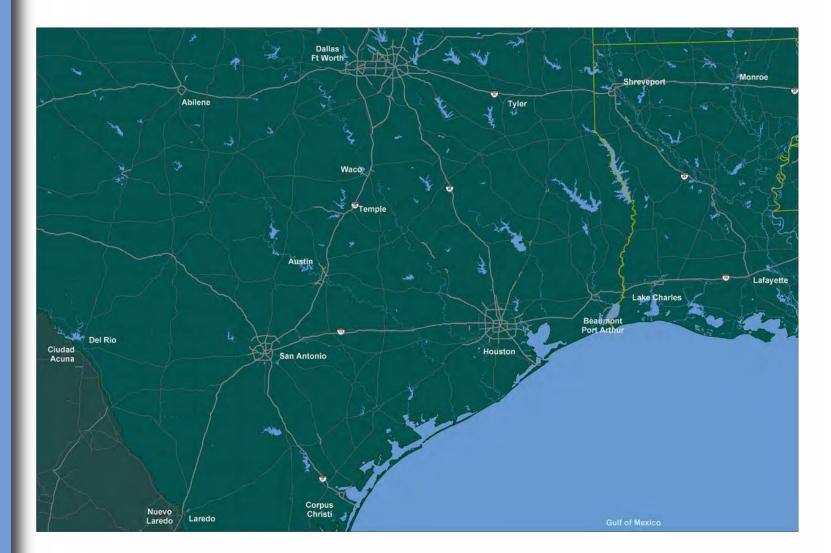


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San Antonio – Deep in the Heart of Texas











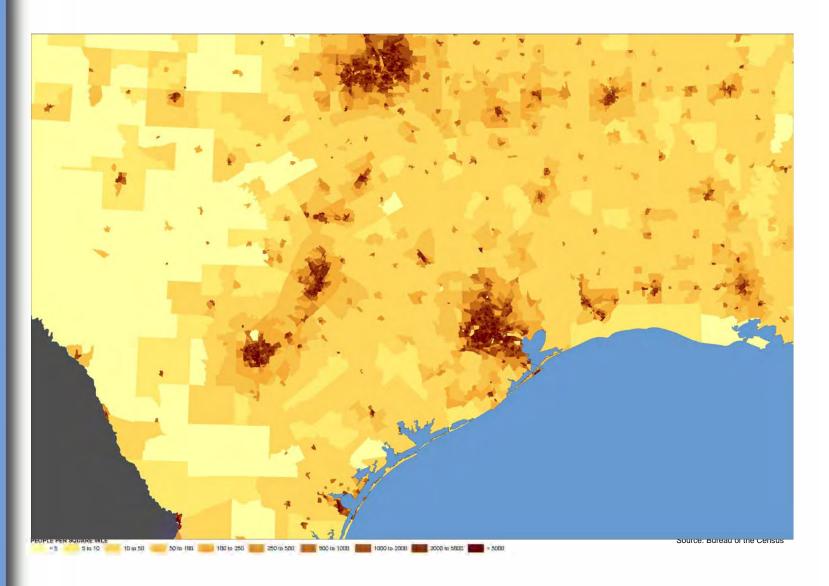




Demographics – Population Density 2007



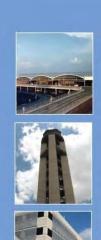




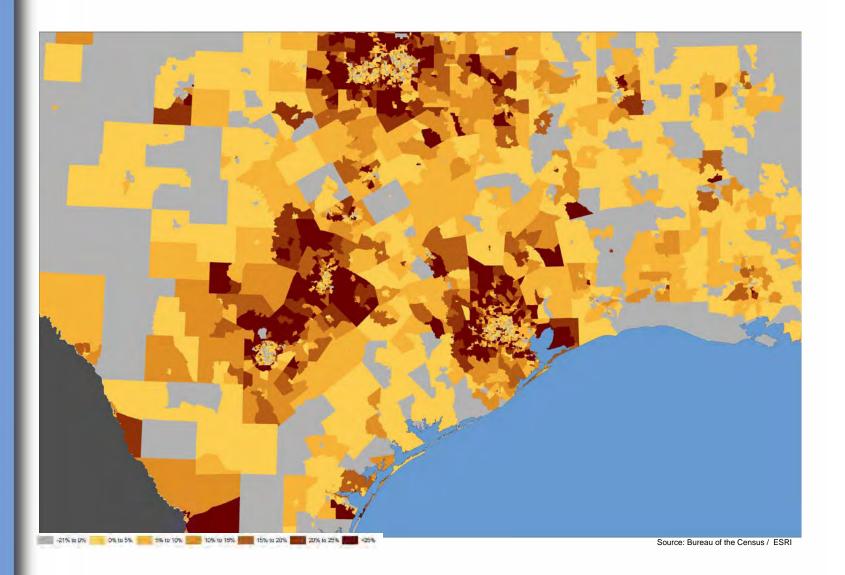




Demographics – Pop Growth 2000-2007











Environment - Topography

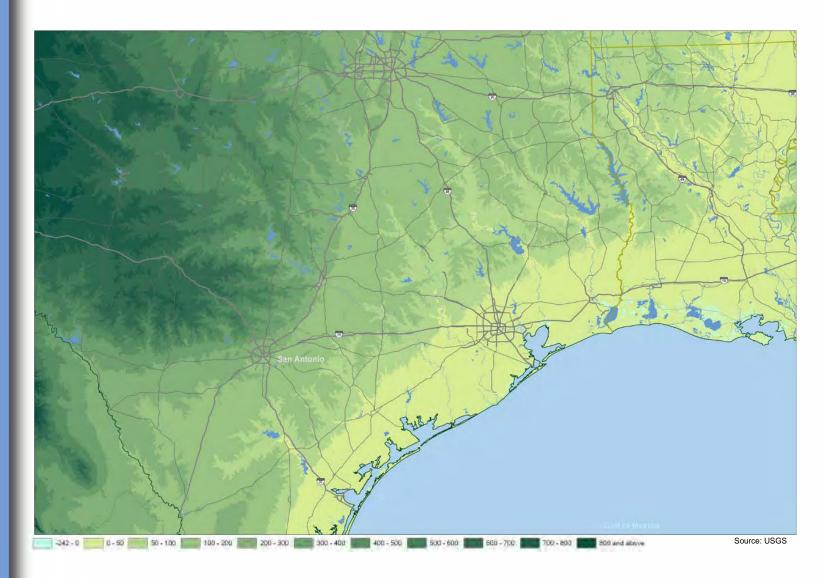
















Environment - Aquifers











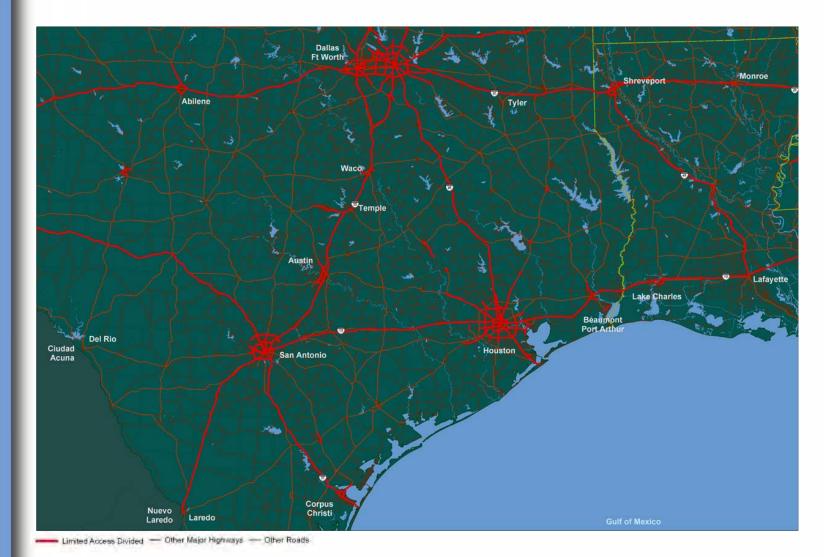


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Transportation – Major Highways











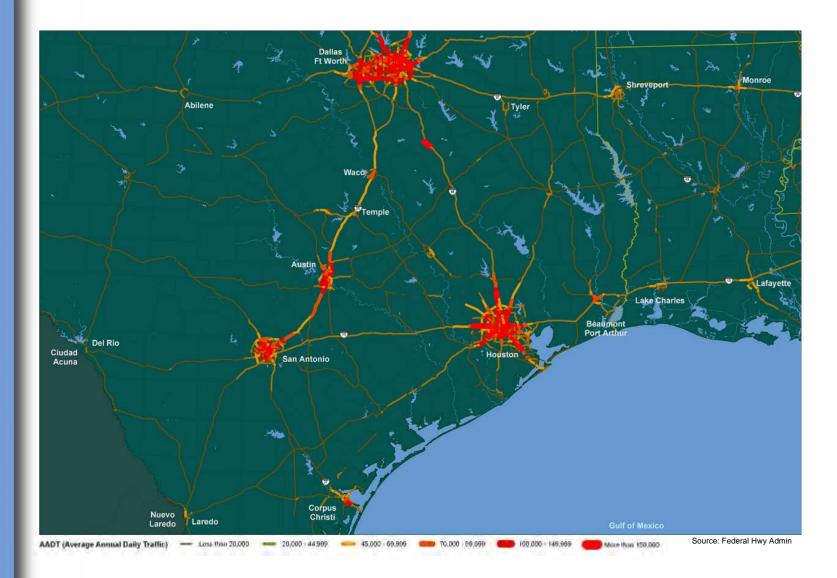
Transportation – Traffic Counts











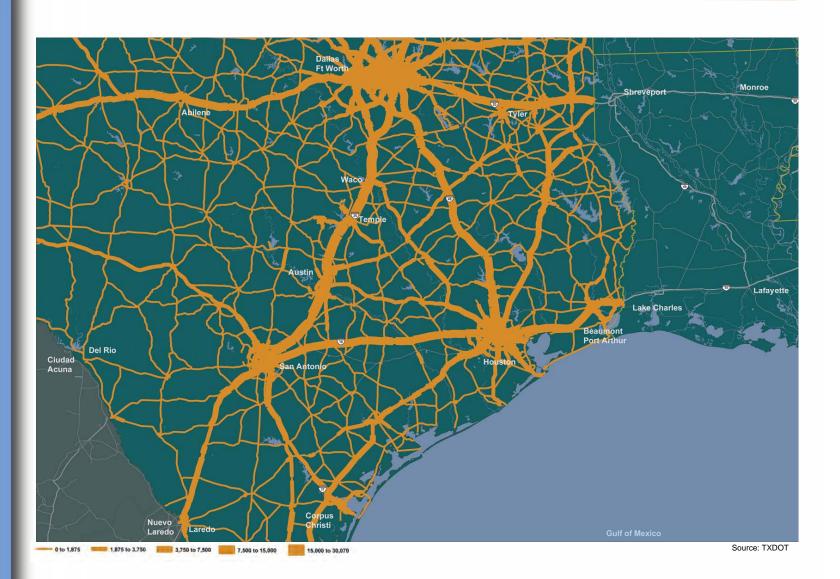




Transportation – Truck Flows











Transportation - Airports

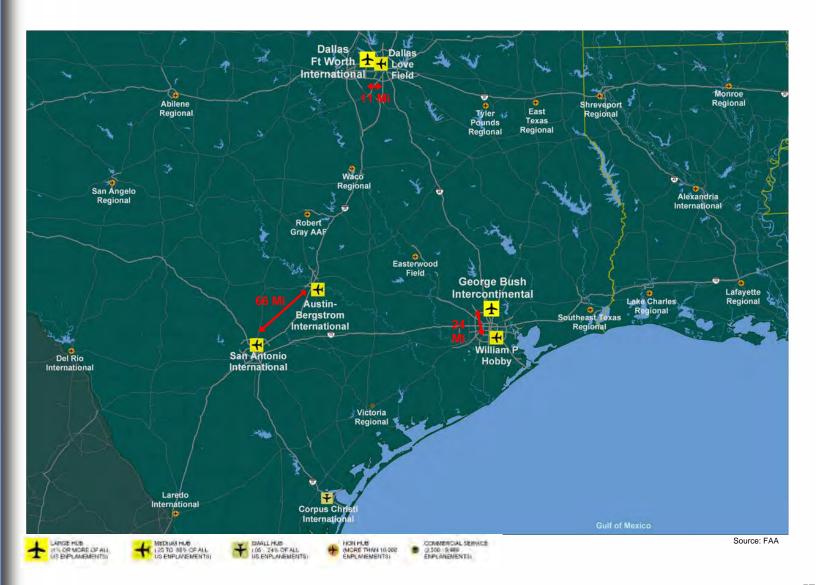








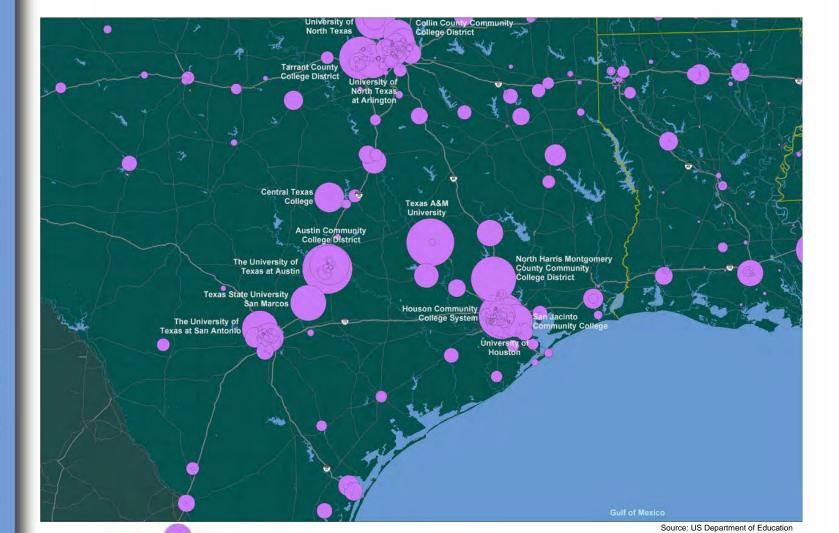








Education – Colleges and Universities







2007 Total Enrollm





Health & Human Svcs - Medical Schools

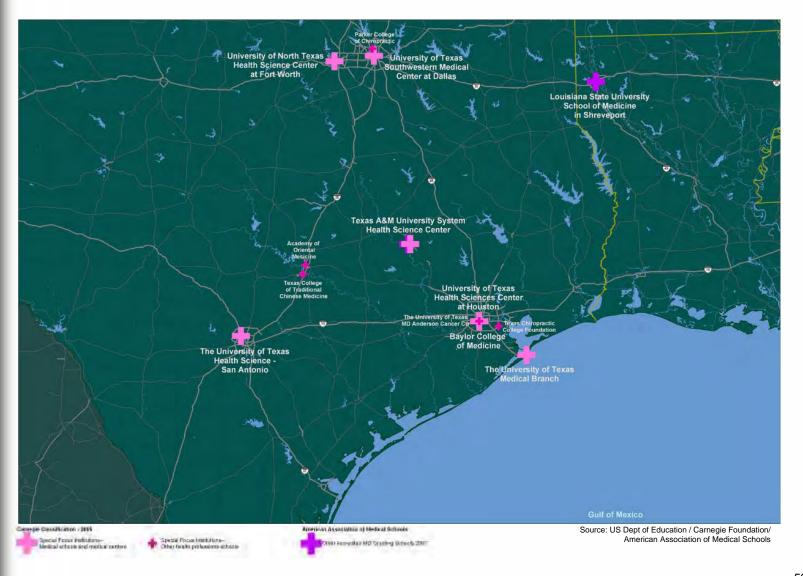
















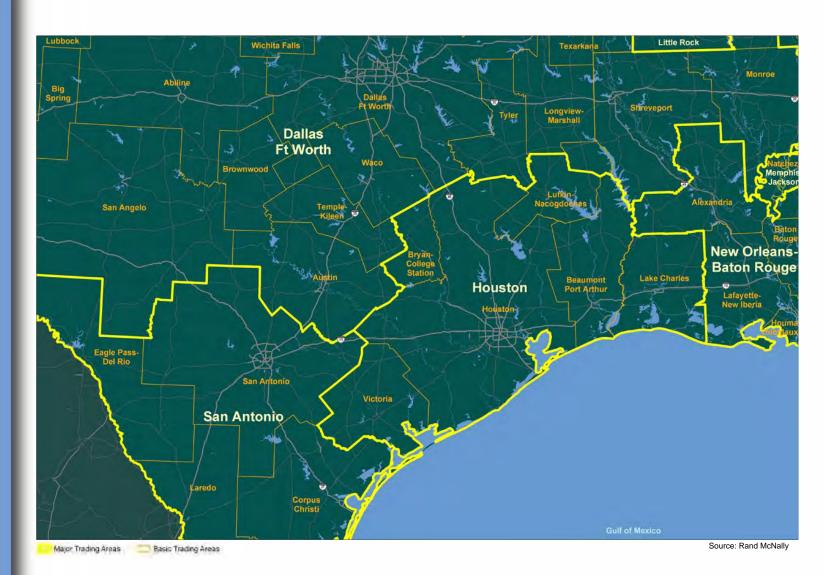
Econ / Business - Trade Areas







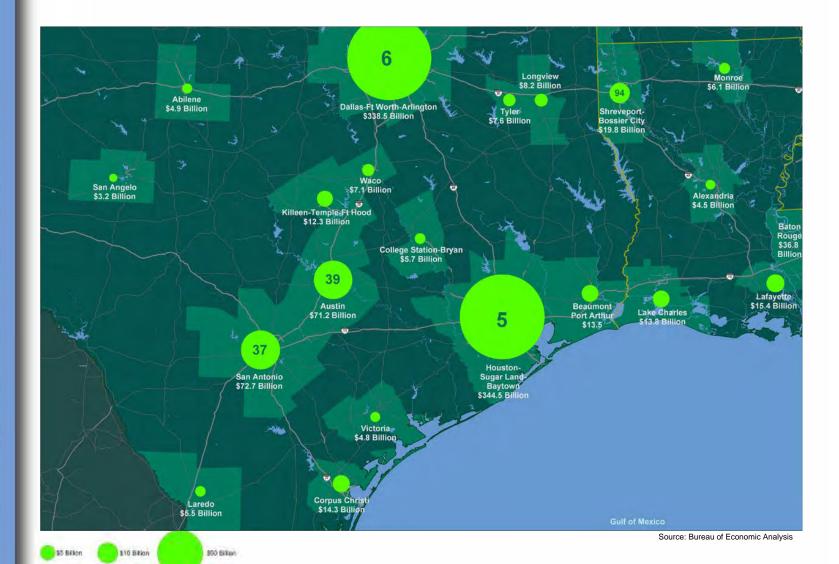








Econ / Business-Gross Metro Product 06











San Antonio Region

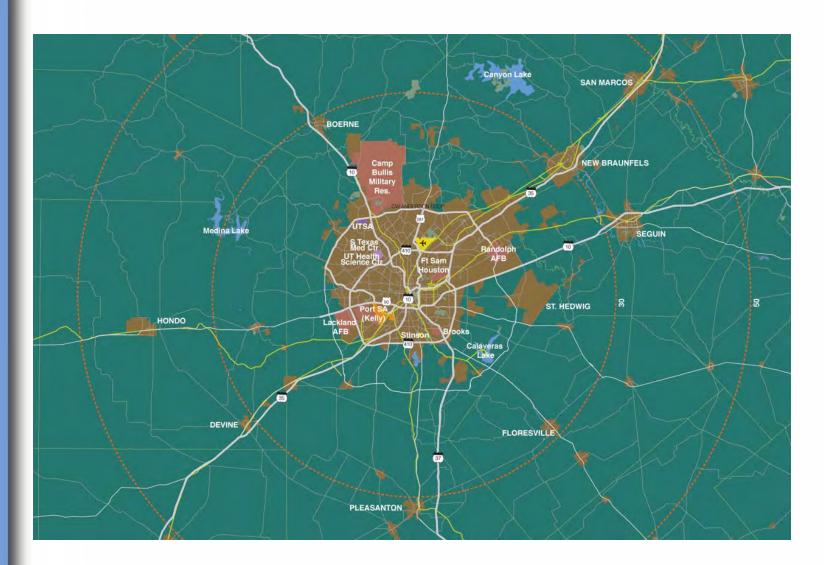
















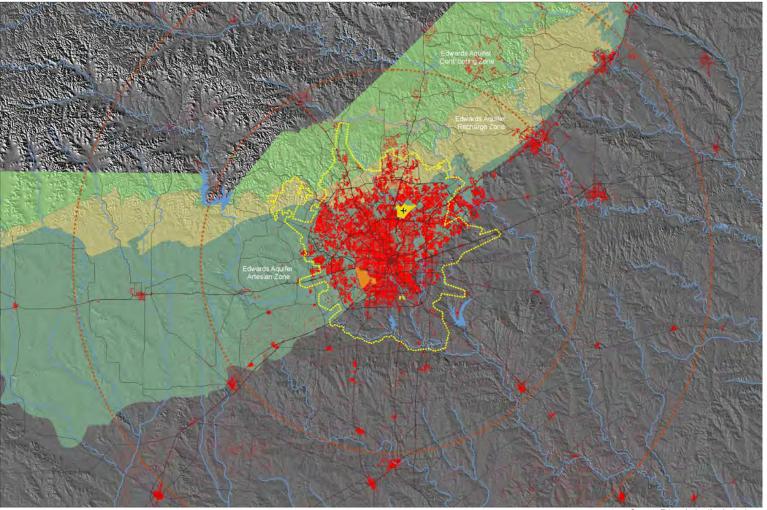
Environment – Edwards Aquifer Zones











Source: Edwards Aquifer Authority

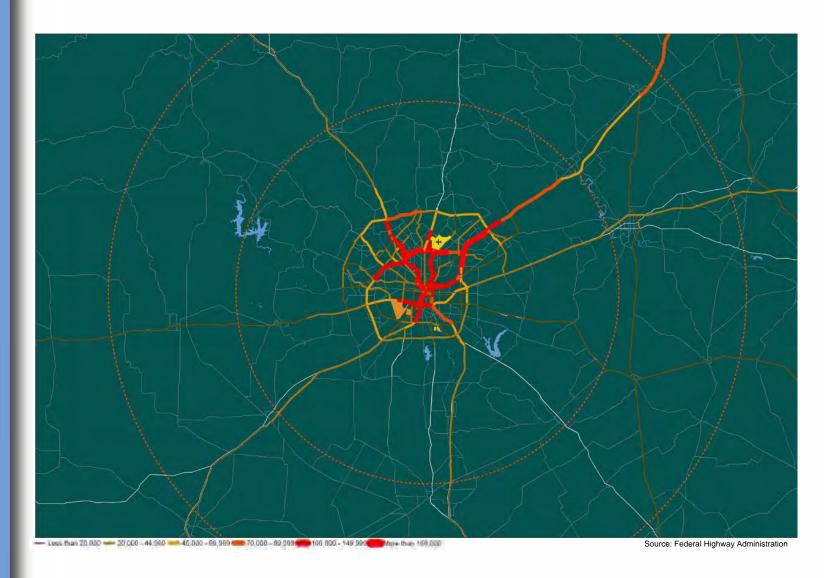




Transportation- Traffic Counts



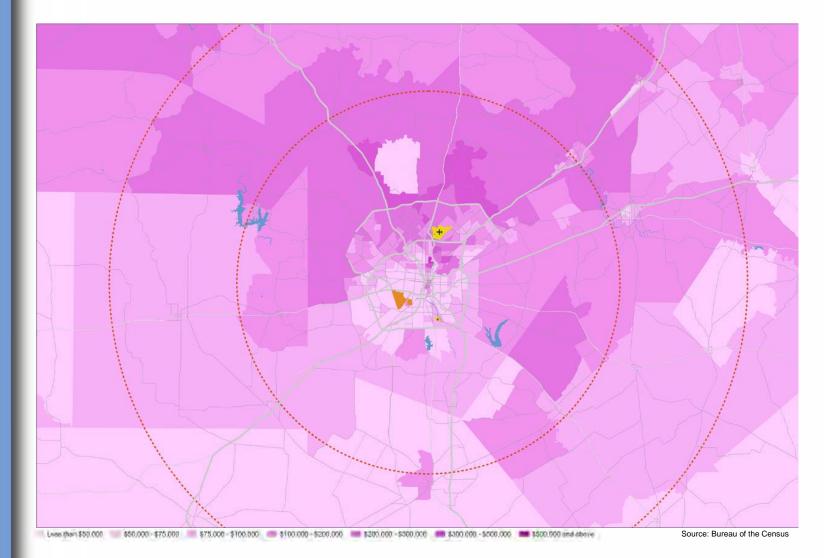








San Antonio – Median House Value - 2000









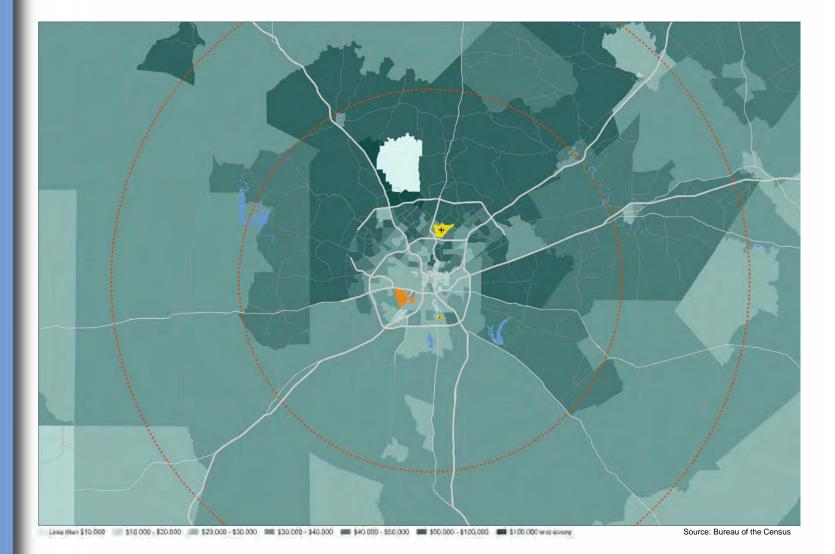








San Antonio - Median Household Income









Real Estate – Office Markets

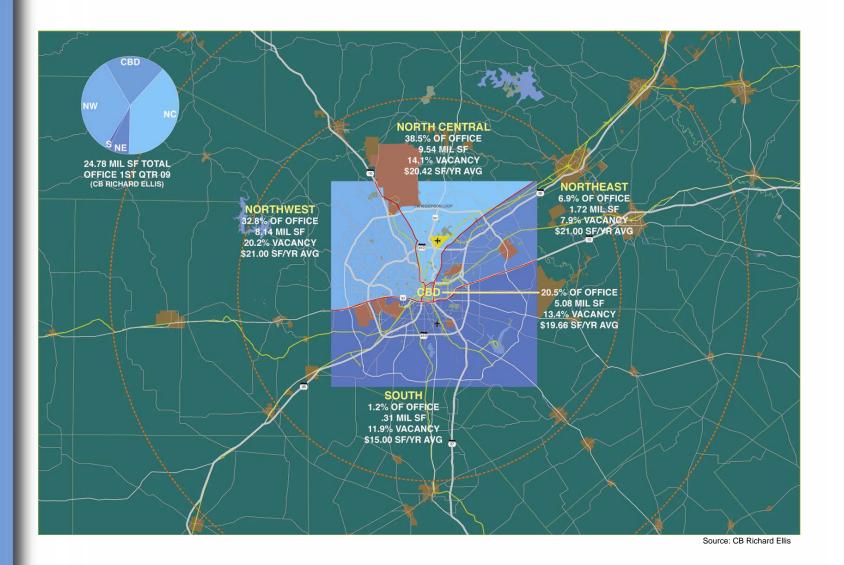
















Real Estate – Industrial Markets

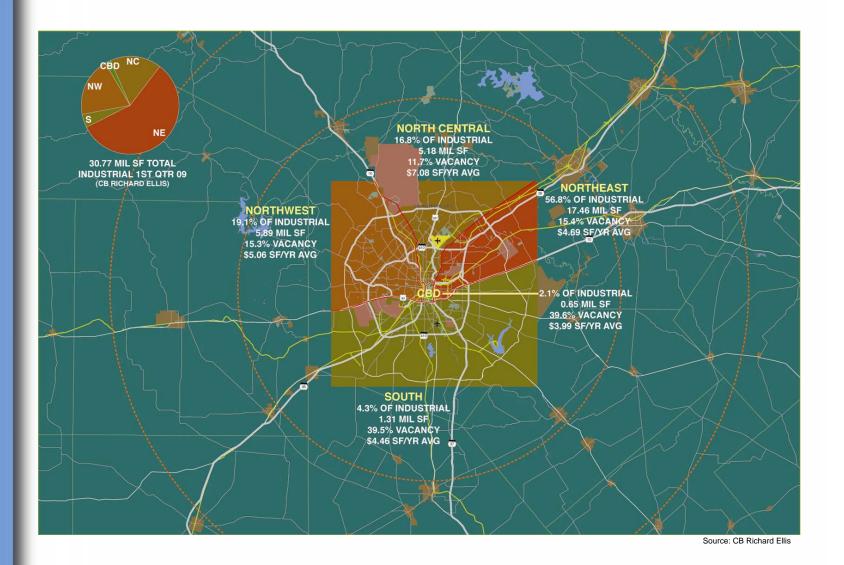
















San Antonio Metro















San Antonio – Traffic Counts

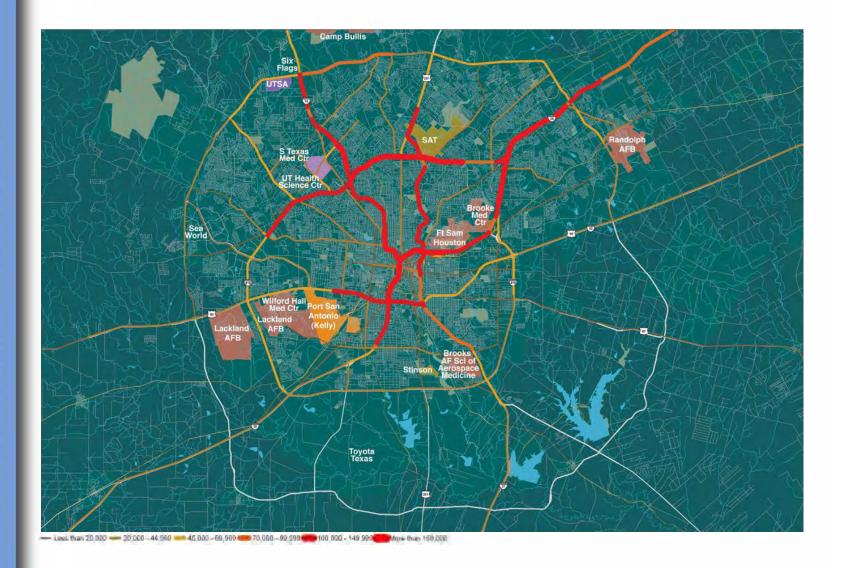
















San Antonio – Truck Flows

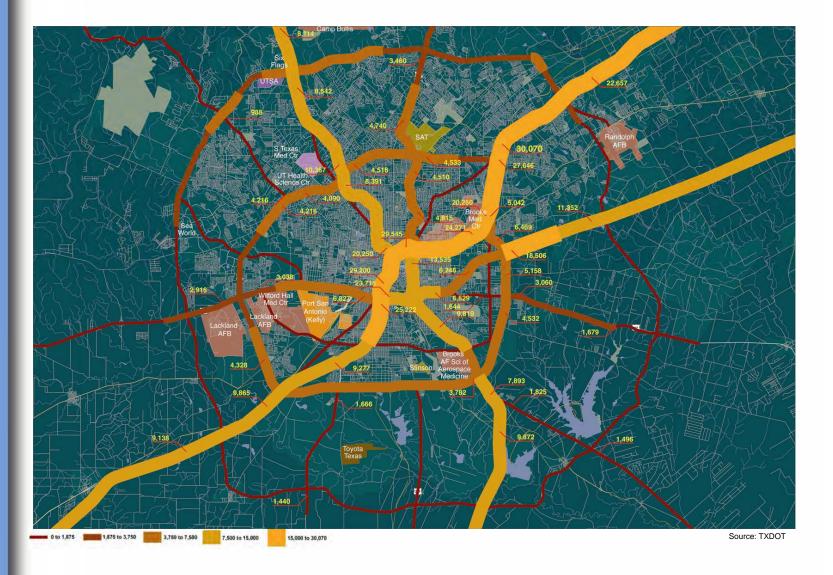
















San Antonio Northeast Quadrant

















San Antonio – Northeast Quadrant

















What is an Airport?



Focus on the relationship of the airport to the regional economy and its effects on the key economic clusters including healthcare & tourism



Focus on relationship of airport to all other modes of passenger and freight transportation and logistics and all ancillary services



Focus on internal airport infrastructure, facilities, functions and operations











Vision, Goals & Objectives

- Vision Statement
 - To be developed during project
- Goals & Objectives
 - Airfield / Airspace
 - Terminal
 - Ground Transportation
 - Integrated Multi-Modal Hub
 - Freight Transportation
 - Environment
 - Financial
 - Regional Development
 - Future Technologies















Vision

Vision Statement

- Focused on what the Airport will need to be in order to support and fulfill the future "Destiny of San Antonio"
- Focus on developing a broad and inclusive Vision for the airport connected to the overarching "Destiny" of the City and Region including its economy, institutions (including Universities and Medical), environment, society and technology.







Airfield / Airspace

- Focused on the configuration of the airfield to support the level of air service needed by the region in the planning horizon.
- Goal
- Objectives







Terminal

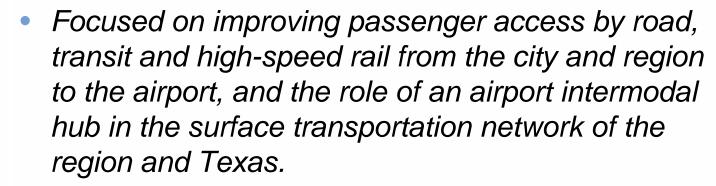
- Focused on the type and configuration of terminals to form one of the key gateways to the region and to provide for air service demand with an acceptable level of service in the decades to come.
- Goal
- Objectives







Ground Transportation





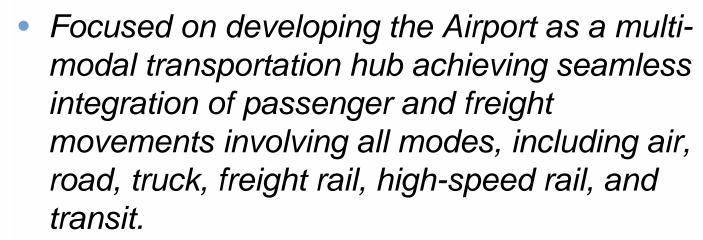
Objectives







Integrated Multi-Modal Hub



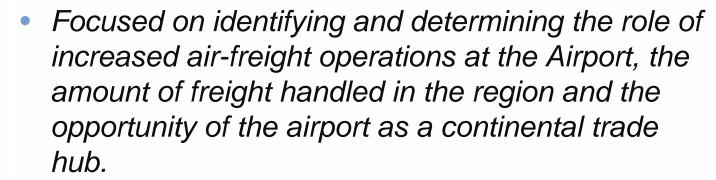
- Goal
- Objectives







> Freight Transportation



- Goal
- Objectives







Environment

- Focused on making San Antonio a leader in the new green technology.
- Goal
- Objectives













Financial

- Focused on prioritizing investments to meet regional goals and objectives.
- Goal
- Objectives













Regional Development

- Focused on strengthening the role and relationship of the Airport as a driver to the social and economic future of the region.
- Goal
- Objectives







Future Technologies

- Focused on incorporating, incubating and applying new technologies.
- Goal
- Objectives



















Next Steps

Master Plan Advisory Committees

- Conclude meetings with each advisory committee
- Provide a summary of the committee feedback and post it on Airport website
- Schedule next meeting early 2010

Master Plan Analysis

- Complete the NEEDS elements before the end of the year
- Initiate the SOLUTIONS effort to identify improvement alternatives through 2030
- Begin examining financial aspects of future development
- Complete in 18 months















www.sanantonio.gov/Aviation